

## Garant

### Jobber drill HSS-E FS, uncoated, Ø DC h8: 4,9 mm



#### Order data

Order number	114450 4,9
GTIN	4045197018687
Item class	11B

#### Description

##### Version:

**Profile ground:** this ensures high concentricity and pitch accuracy. Precision ground point. Drill for production use.

##### Strengthened core.

Bright finish **parabolic flutes**, from 3 mm nitrided lands.

With point geometry shape C up to size 3.9 mm

With point geometry shape S from size 4 mm

##### Recommendation:

##### Maximum drilling depth:

flute length (see table) less 1.5×nominal Ø.

Through-coolant: no

Standard: DIN 338

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L<sub>2</sub>: 44.7 mm

Flute length L<sub>c</sub>: 52 mm

Overall length L: 86 mm

Shank Ø D<sub>s</sub>: 4.9 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.05 mm/rev.

#### Technical description

Feed f in steel < 750 N/mm <sup>2</sup>	0.05 mm/rev.
Flute length L <sub>c</sub>	52 mm
Nominal Ø D <sub>c</sub>	4.9 mm

Number of cutting edges Z	2
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	4.9 mm
Overall length L	86 mm
Standard	DIN 338
recommended maximum drilling depth $L_2$	44.7 mm
Point angle	130 degrees
Coating	uncoated
Tool material	HSS E
Type	FS
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill